```
=> d his ful
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(FILE 'HOME' ENTERED AT 15:42:56 ON 19 APR 2006)

FILE 'HCAPLUS' ENTERED AT 15:43:30 ON 19 APR 2006 E US20040265628/PN

1 SEA ABB=ON PLU=ON US20040265628/PN D ALL SEL RN

FILE 'REGISTRY' ENTERED AT 15:44:13 ON 19 APR 2006

15 SEA ABB=ON PLU=ON (14302-87-5/BI OR 14701-21-4/BI OR L214701-22-5/BI OR 15158-11-9/BI OR 168646-54-6/BI OR 22537-48-0/BI OR 23713-49-7/BI OR 27318-90-7/BI OR 642-31-9/BI OR 713489-13-5/BI OR 74-88-4/BI OR 777905-81-4/BI OR 777905-87-0/BI OR 816418-48-1/BI OR 98-98-6/BI) D SCAN D L2 1-15 RN STR

FILE 'HCAPLUS' ENTERED AT 15:47:54 ON 19 APR 2006 D SCAN L1

FILE 'LREGISTRY' ENTERED AT 15:55:59 ON 19 APR 2006 1.3 STR 816418-48-1

FILE 'REGISTRY' ENTERED AT 15:59:14 ON 19 APR 2006

2 SEA SSS SAM L3 L4

D SCAN

SCR 1918 OR 2043 L_5

2 SEA SSS SAM L3 NOT L5 L6 D SCAN

FILE 'LREGISTRY' ENTERED AT 16:06:05 ON 19 APR 2006 STR 816418-48-1 1.7

FILE 'REGISTRY' ENTERED AT 16:10:15 ON 19 APR 2006

7 SEA SSS SAM L7 L8

D SCAN SCR 1842

1.9

L16

5 SEA SSS SAM L7 AND L9 NOT L5 L10

D SCAN

697 SEA SSS FUL L7 AND L9 NOT L5 L11 SAV L11 MES685/A

4 SEA ABB=ON PLU=ON L11 AND 1/N L12

D SCAN

2 SEA ABB=ON PLU=ON L12 NOT 2-10/N L13

D SCAN

4 SEA ABB=ON PLU=ON L2 AND L11

D SCAN

D SCAN L2

FILE 'LREGISTRY' ENTERED AT 16:16:12 ON 19 APR 2006 L15 STR L7

FILE 'REGISTRY' ENTERED AT 16:17:02 ON 19 APR 2006

8 SEA SUB=L11 SSS SAM L15

D SCAN

121 SEA SUB=L11 SSS FUL L15 1.17 SAV L17 MES685A/A

FILE 'HCAPLUS' ENTERED AT 16:19:07 ON 19 APR 2006

6 SEA ABB=ON PLU=ON L14 111 SEA ABB=ON PLU=ON L17 L18

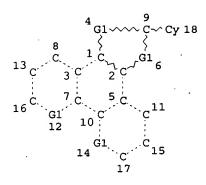
L19

279 SEA ABB=ON PLU=ON L11 L20

279132 SEA ABB=ON PLU=ON ?LUMINES? OR (PHOTO OR ELECTRO) (A)L

EIC 1700 Search MRy

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UMINES?
               68 SEA ABB=ON PLU=ON L21 AND L20
L22
               5 SEA ABB=ON PLU=ON L18 AND L21
L23
              54 SEA ABB=ON PLU=ON L19 AND L21
68 SEA ABB=ON PLU=ON (L22 OR L23 OR L24)
QUE ABB=ON PLU=ON EL OR E(W)L OR L(W)E(W)D OR OLED
T<sub>1</sub>24
L25
L26
                  OR ELECTROLUM!N? OR ORGANOLUM!N? OR (ELECTRO OR ORGANO
                  OR ORG#)(2A)LUM!N? OR LIGHT?(2A)(EMIT? OR EMISSION? OR
                  SOURCE?)
                  QUE ABB=ON PLU=ON (LUMINES####### OR FLUORES? OR
L27
                  PHOSPHORES?)/BI, AB OR LED/IT OR PHOSPHOR# OR LUMIN?
               26 SEA ABB=ON PLU=ON L20 AND L26
L28
              95 SEA ABB=ON PLU=ON L20 AND L27
L29
               15 SEA ABB=ON PLU=ON L19 AND L26
L30
             67 SEA ABB=ON PLU=ON L19 AND L27
6 SEA ABB=ON PLU=ON L18 AND (L26 OR L27)
18 SEA ABB=ON PLU=ON L18 OR L23 OR L30 OR L32
100 SEA ABB=ON PLU=ON (L22 OR L23 OR L24 OR L25) OR (L28
L31
L32 .
L33
L34
                  OR L29 OR L30 OR L31 OR L32)
      FILE 'LREGISTRY' ENTERED AT 16:37:27 ON 19 APR 2006
                  STR L7
1.35
      FILE 'REGISTRY' ENTERED AT 16:40:30 ON 19 APR 2006
L36
               32 SEA SUB=L11 SSS SAM L35
                  D SCAN
              633 SEA SUB=L11 SSS FUL L35
L37
                  SAV L37 MES685B/A
      FILE 'HCAPLUS' ENTERED AT 16:42:58 ON 19 APR 2006
             262 SEA ABB=ON PLU=ON L37
67 SEA ABB=ON PLU=ON L38 AND L21
L38
L39
                1 SEA ABB=ON PLU=ON L22 NOT L39
L40
                  D SCAN
                  D HITSTR
              100 SEA ABB=ON PLU=ON L25 OR L34 OR L39
L41
      FILE 'REGISTRY' ENTERED AT 16:55:33 ON 19 APR 2006
                 D SCAN L14
      FILE 'HCAPLUS' ENTERED AT 16:56:20 ON 19 APR 2006
         63 SEA ABB=ON PLU=ON L41 AND 1840-2003/PY
6 SEA ABB=ON PLU=ON L23 OR L32
L42
L43
L44
               63 SEA ABB=ON PLU=ON L42 NOT L43
                  QUE ABB=ON PLU=ON PRODUC? OR PROD# OR GENERAT? OR
L45
                  MANUF? OR MFR# OR CREAT? OR FORM## OR FORMING# OR
                  FORMAT? OR MAKE# OR MADE# OR MAKING# OR FABRICAT? OR
                  SYNTHESI? OR PREPAR? OR PREP#
               55 SEA ABB=ON PLU=ON L44 AND L45
L46
               35 SEA ABB=ON PLU=ON .L46 AND L21 20 SEA ABB=ON .PLU=ON L46 NOT L47
L47
L48
L49
               8 S L42 NOT L46
=> => d que stat 118
               15 SEA FILE=REGISTRY ABB=ON PLU=ON (14302-87-5/BI OR
L2
                  14701-21-4/BI OR 14701-22-5/BI OR 15158-11-9/BI OR
                  168646-54-6/BI OR 22537-48-0/BI OR 23713-49-7/BI OR
                  27318-90-7/BI OR 642-31-9/BI OR 713489-13-5/BI OR
                  74-88-4/BI OR 777905-81-4/BI OR 777905-87-0/BI OR
                  816418-48-1/BI OR 98-98-6/BI)
                  SCR 1918 OR 2043
L5
1.7
                  STR
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VAR G1=C/N NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L9 SCR 1842

L11 697 SEA FILE=REGISTRY SSS FUL L7 AND L9 NOT L5 4 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND L11 L14

L18 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L14

=> d l18 1-6 ibib abs hitstr hitind

L18 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2006:121702 HCAPLUS

TITLE:

Ruthenium(II) complex of 2-(9-anthryl)-1Himidazo[4,5-f][1,10]phenanthroline: synthesis,

spectrophotometric pH titrations and DNA

interaction

AUTHOR (S):

CORPORATE SOURCE:

Han, Mei-Jiao; Gao, Li-Hua; Wang, Ke-Zhi Department of Chemistry and Key Laboratory of Radiopharmaceuticals, Ministry of Education, Beijing Normal University, Beijing, 100875,

Peop. Rep. China

SOURCE: New Journal of Chemistry (2006), 30(2),

208-214

CODEN: NJCHE5; ISSN: 1144-0546

PUBLISHER: Royal Society of Chemistry

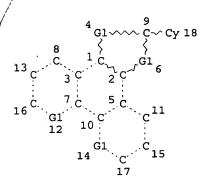
DOCUMENT TYPE:

Journal English

LANGUAGE:

A Ru(II) complex of [(bpy) 2Ru(aip)] (ClO4) $2 \cdot H2O$ (bpy = 2,2'-bipyridine, aip = 2-(9-anthryl)-1H-imidazo(4,5-

f][1,10]phenanthroline) was newly synthesized. The ground- and excited-state acid-base properties of the complex were studied by UV-visible and emission spectrophotometric pH titrns. The excited-state ionization consts. of pKa1* = 2.57, pKa2* = 8.47 are comparable to and 1.3 orders of magnitude greater than the ground-state ones, resp. The interaction of the complex with calf thymus DNA was studied by UV-visible and emission spectroscopy, steady-state emission quenching by [Fe(CN)6]4-, competitive binding with ethidium bromide, reverse salt titrns., DNA melting expts., as well as viscosity measurements. The complex bound to the DNA by interaction of the anthryl moiety of the complex with an intrinsic binding constant of the order of 104 M-1 in buffered 50 mM NaCl at room temperature, and nonelectrostatic binding free energy



VAR G1=C/N NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE L9 SCR 1842

L11 697 SEA FILE=REGISTRY SSS FUL L7 AND L9 NOT L5 L14 4 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND L11 L15 STR

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

STEREO	ATTRIBUT	ES: NONE
L17	121	SEA FILE=REGISTRY SUB=L11 SSS FUL L15
L18	6	SEA FILE=HCAPLUS ABB=ON PLU=ON L14
L19	111	SEA FILE=HCAPLUS ABB=ON PLU=ON L17
L20	279	SEA FILE=HCAPLUS ABB=ON PLU=ON L11
L21	279132	SEA FILE=HCAPLUS ABB=ON PLU=ON ?LUMINES? OR (PHOTO
		OR ELECTRO) (A) LUMINES?
L22	68	SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND L20
L23	5	SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND L21
L24	54	SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND L21
L25	68	SEA FILE=HCAPLUS ABB=ON PLU=ON (L22 OR L23 OR L24)
L26	•	QUE ABB=ON PLU=ON EL OR E(W)L OR L(W)E(W)D OR OLED O
		R ELECTROLUM!N? OR ORGANOLUM!N? OR (ELECTRO OR ORGANO O
		R ORG#) (2A) LUM!N? OR LIGHT? (2A) (EMIT? OR EMISSION? OR S

```
OURCE?)
                QUE ABB=ON PLU=ON (LUMINES####### OR FLUORES? OR PHO
L27
                SPHORES?)/BI,AB OR LED/IT OR PHOSPHOR# OR LUMIN?
             26 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND L26
L28
                                          PLU=ON L20 AND L27
PLU=ON L19 AND L26
             95 SEA FILE=HCAPLUS ABB=ON
L29
             15 SEA FILE=HCAPLUS ABB=ON
L30
                                          PLU=ON L19 AND L27
             67 SEA FILE=HCAPLUS ABB=ON
L31
              6 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (L26 OR L27)
L32
            100 SEA FILE=HCAPLUS ABB=ON PLU=ON (L22 OR L23 OR L24 OR
L34
                L25) OR (L28 OR L29 OR L30 OR L31 OR L32)
L35
                     ^ Cy 18
         10
     12
```

VAR G1=C/N
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 18
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M5-X16 C M0-X2 N AT 18

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

SIEKEO MIIKIBOI	
L37 633	SEA FILE=REGISTRY SUB=L11 SSS FUL L35
L38 262	SEA FILE=HCAPLUS ABB=ON PLU=ON L37
L39 67	SEA FILE=HCAPLUS ABB=ON PLU=ON L38 AND L21
L41 100	SEA FILE=HCAPLUS ABB=ON PLU=ON L25 OR L34 OR L39
L42 63	SEA FILE=HCAPLUS ABB=ON PLU=ON L41 AND 1840-2003/PY
L43 6	SEA FILE=HCAPLUS ABB=ON PLU=ON L23 OR L32
L44 63	SEA FILE=HCAPLUS ABB=ON PLU=ON L42 NOT L43
L45	QUE ABB=ON PLU=ON PRODUC? OR PROD# OR GENERAT? OR MA
	NUF? OR MFR# OR CREAT? OR FORM## OR FORMING# OR FORMAT?
	OR MAKE# OR MADE# OR MAKING# OR FABRICAT? OR SYNTHESI?
	OR PREPAR? OR PREP#
L46 55	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 AND L45
	SEA FILE=HCAPLUS ABB=ON PLU=ON L46 AND L21

=> d 147 1-35 ibib abs hitstr hitind

```
L47 ANSWER 1 OF 35 HCAPLUS COPYRIGHT 2006 ACS on STN
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ACCESSION NUMBER:

2004:85642 HCAPLUS

DOCUMENT NUMBER:

141:309896

TITLE:

Synthesis and characteristics of two new Ni-phenanthroline fluorescence probe for nucleic acid determination

AUTHOR(S):

Zhuang, Hui-sheng; Guo, Chun-hua; Chen, Peng;

Wang, Qiong-e; Chen, Guo-nan

CORPORATE SOURCE:

Coll. of Environ. Sci. and Eng., Donghua Univ., Shanghai, 250001, Peop. Rep. China

SOURCE:

Huaxue Shiji (2003), 25(6), 325-328

Les Henderson